

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5140
CALIBRATION DATE: 29-Mar-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.36465172e-003
h = 6.40988489e-004
i = 2.23190324e-005
j = 2.08644577e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3017.154	-1.5000	-0.00001
1.0000	3191.232	1.0000	0.00004
4.5000	3446.965	4.5000	-0.00005
8.0000	3717.107	8.0000	-0.00003
11.5000	4002.040	11.5000	0.00003
15.0000	4302.135	15.0001	0.00006
18.5000	4617.749	18.5000	-0.00002
22.0000	4949.249	22.0000	-0.00005
25.5000	5296.979	25.5000	0.00002
29.0000	5661.249	29.0000	-0.00000
32.5000	6042.383	32.5000	0.00001

f = Instrument Output (Hz)

Temperature ITS-90 (°C) = $1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

